



Capitol Group

1620 Headland Drive
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SOUTHWARK METAL
MANUFACTURING COMPANY
DUCT SCHOOL

Air Flow Fundamentals & Residential Duct Sizing

This four-hour course provides all the primary information and theory needed to understand how air flows in a residential HVAC system. It explains how the quantity of flow is calculated based on the energy demand for a particular residence and the effect that the system components have on the air flow. This course also provides more advanced information and theory needed to calculate the proper duct size in a residential forced air system. It will explain how basic air flow fundamentals must be used along with complete information on the dwelling, all installation components, proposed equipment and best practices for installation.

Topics Include:

- Air flow measurements and terminology
- Basic residential design and air flow calculations
- System components pressure drop dynamics
- Complete instruction for the use of the sheet metal duct calculator
- Residential venting engineering and installation and filter size calculations
- Supply distributions system and return distribution system review and calculations
- Heat gain/heat loss dynamics and calculations
- Sensible heat formula and CFM calculation
- Forced air pipe/duct and fittings review
- Duct gauges and good installation practices
- Duct sizing theory and velocity limits

DATE:	Tuesday - April 9, 2019	TIME:	8:00a - 12:00p
LOCATION:	1620 Headland Dr - Fenton	COST:	\$25 per person

NOTICE: St. Louis County licensed dealers can earn 2.0 HVAC Service Installer Trade / Pipefitter Trade / Sheet Metal Trade / Sprinkler Fitter Core Professional Education Units (PEU) credits for Course Number _____. Individuals with ONLY a St. Louis City License will no longer need to sign for PEU credit due to St. Louis City's process taking certificates only. Please make sure you get a certificate for the class. As a reminder, be sure to bring your current license/licenses to obtain these credits.

NOTICE: NATE licensed dealers can earn 4 continuing education accreditation hours (CEH) under Course Number _____. Please be sure to bring your current NATE certification card to obtain these credits thru Southwark.

Class size is limited - don't delay sign-up today!



RSVP BEFORE APRIL 2, 2019

Please print clearly

Name _____	Name _____
Company Name _____	Phone _____
Address _____	Fax _____
City _____ State _____ Zip _____	Email _____

3 Ways to RSVP Before 04/02/19: Online: capitolgroupinc.com/Events – **Call:** 314.446.1542 ext. 1802
Email: dleach@capitolgroupinc.com (Subject: Duct Sizing Training)